

Ag. Waste Application and Excavated Ponds  
Todd County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AlA: Altvan-----	90	Very limited Filtering capacity Depth to dense layer Droughty	1.00  1.00 0.07	Very limited Deep to water	1.00
AlB: Altvan-----	95	Very limited Filtering capacity Depth to dense layer Droughty	1.00  1.00 0.07	Very limited Deep to water	1.00
AnB: Anselmo-----	70	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
AnC: Anselmo-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
ApC: Anselmo-----	70	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Duda-----	20	Very limited Droughty Leaching limitation Depth to bedrock	1.00 0.45 0.42	Very limited Deep to water	1.00
ArC: Anselmo-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Ronson-----	30	Somewhat limited Droughty Depth to bedrock	0.81 0.42	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AtE: Anselmo-----	46	Very limited Filtering capacity Slope	1.00 0.84	Very limited Deep to water	1.00
Longpine-----	30	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
AuE: Anselmo-----	35	Very limited Filtering capacity Slope	1.00 0.63	Very limited Deep to water	1.00
Tuthill-----	30	Very limited Filtering capacity Slope	1.00 0.63	Very limited Deep to water	1.00
AvA: Anselmo-----	55	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Vetal-----	30	Not limited		Very limited Deep to water	1.00
AvB: Anselmo-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Vetal-----	30	Not limited		Very limited Deep to water	1.00
BsD: Boyd-----	70	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 0.99 0.42 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Sansarc-----	25	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00  1.00 1.00 0.84 0.40	Very limited Deep to water	1.00
CaA: Chappell-----	60	Very limited Filtering capacity Droughty Leaching limitation	1.00  0.46 0.45	Very limited Deep to water	1.00
Anselmo-----	30	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
CaB: Chappell-----	55	Very limited Filtering capacity Droughty Leaching limitation	1.00  0.46 0.45	Very limited Deep to water	1.00
Anselmo-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
DcC: Dix-----	50	Very limited Filtering capacity Droughty Leaching limitation	1.00  0.77 0.45	Very limited Deep to water	1.00
Chappell-----	30	Very limited Filtering capacity Droughty Leaching limitation	1.00  0.46 0.45	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
DfA: Doger-----	80	Not Rated Not Rated Filtering capacity Leaching limitation Droughty	  1.00 0.45 0.05	Very limited Deep to water	1.00
DgB: Doger-----	65	Not Rated Not Rated Filtering capacity Leaching limitation Droughty	  1.00 0.45 0.05	Very limited Deep to water	1.00
Dunday-----	20	Very limited Filtering capacity Leaching limitation Droughty	  1.00 0.45 0.05	Very limited Deep to water	1.00
DlB: Duda-----	70	Very limited Droughty Leaching limitation Depth to bedrock	 1.00 0.45 0.42	Very limited Deep to water	1.00
DsA: Dunday-----	90	Very limited Filtering capacity Leaching limitation Droughty	  1.00 0.45 0.05	Very limited Deep to water	1.00
DuA: Dunday-----	90	Very limited Filtering capacity Leaching limitation Droughty	  1.00 0.45 0.05	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ElA: Elsmere-----	65	Very limited Filtering capacity Depth to saturated zone Leaching limitation	1.00 0.95 0.45	Very limited Cutbanks cave Deep to water	1.00 0.02
EpF: Epping-----	65	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Keota-----	20	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.36	Very limited Deep to water	1.00
Ge: Gannett-----	70	Very limited Filtering capacity Depth to saturated zone Flooding Runoff limitation Droughty	1.00 1.00 0.60 0.40 0.01	Very limited Cutbanks cave	1.00
Gh: Goshen-----	90	Not limited		Very limited Deep to water	1.00
Gr: Schamber-----	45	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Dix-----	40	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 0.77 0.63 0.45	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HfA: Holt-----	85	Very limited Droughty Depth to bedrock Sodium content	1.00 0.42 0.08	Very limited Deep to water	1.00
HlC: Holt-----	40	Very limited Droughty Depth to bedrock Sodium content	1.00 0.42 0.08	Very limited Deep to water	1.00
Vetal-----	20	Not limited		Very limited Deep to water	1.00
HmA: Hoven-----	90	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
HnA: Jerauld-----	80	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
HuA: Huggins-----	85	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.61 0.30	Very limited Deep to water	1.00
HwB: Huggins-----	55	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.61 0.30	Very limited Deep to water	1.00
Kadoka-----	30	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
In: Inavale-----	90	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
Iw: Inavale-----	75	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
Bigwinder-----	20	Very limited Flooding Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.30 0.01
KaA: Kadoka-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
KbC: Kadoka-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Epping-----	15	Very limited Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
KdB: Kadoka-----	50	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Huggins-----	37	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.61 0.30	Very limited Deep to water	1.00
KdC: Kadoka-----	65	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Huggins-----	25	Somewhat limited Depth to bedrock Droughty Restricted permeability	0.84 0.61 0.30	Very limited Deep to water	1.00
KeA: Keith-----	90	Not limited		Very limited Deep to water	1.00
KeC: Keith-----	60	Not limited		Very limited Deep to water	1.00
KgD: Keith-----	45	Somewhat limited Slope	0.16	Very limited Deep to water	1.00
Epping-----	30	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
KhE: Keota-----	40	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.36	Very limited Deep to water	1.00
Epping-----	35	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
KkD: Keota-----	45	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.36	Very limited Deep to water	1.00
Kadoka-----	40	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
KrF: Keota-----	35	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.36	Very limited Deep to water	1.00
Epping-----	30	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	20	Not rated		Not rated	
Ky: Keya-----	85	Not limited		Very limited Deep to water	1.00
La: Fluvents, Loamy-----	99	Not rated		Not rated	
Le: Loup-----	60	Very limited Depth to saturated zone Filtering capacity Runoff limitation Droughty	1.00 1.00 0.40 0.09	Very limited Cutbanks cave	1.00
Elsmere-----	25	Very limited Filtering capacity Depth to saturated zone Leaching limitation	1.00 0.95 0.45	Very limited Cutbanks cave Deep to water	1.00 0.02

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
MaD: Mckelvie-----	90	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
MaF: Mckelvie-----	70	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Peji-----	20	Very limited Slope Droughty Filtering capacity Leaching limitation Depth to bedrock	1.00 1.00 1.00 0.45 0.42	Very limited Deep to water	1.00
MaG: Mckelvie-----	70	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Peji-----	20	Very limited Slope Droughty Filtering capacity Leaching limitation Depth to bedrock	1.00 1.00 1.00 0.45 0.42	Very limited Deep to water	1.00
MaHG: Mckelvie-----	55	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Blula-----	20	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Peji-----	20	Very limited Slope Droughty Filtering capacity Leaching limitation Depth to bedrock	1.00 1.00 1.00 0.45 0.42	Very limited Deep to water	1.00
MbA: Millboro-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
MbB: Millboro-----	95	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
MbC: Millboro-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
MhA: Mosher-----	80	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43
MmA: Mosher-----	69	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Minatare-----	30	Very limited Restricted permeability Sodium content Salinity Depth to saturated zone Runoff limitation	1.00 1.00 1.00 1.00 0.40	Somewhat limited Salty water  Cutbanks cave Deep to water	0.97  0.10 0.01
OkC: Okreek-----	90	Very limited Restricted permeability Runoff limitation Droughty Depth to bedrock	1.00 0.40 0.27 0.10	Very limited Deep to water	1.00
OoE: Okreek-----	60	Very limited Restricted permeability Runoff limitation Slope Droughty Depth to bedrock	1.00 0.40 0.37 0.27 0.10	Very limited Deep to water	1.00
Orella-----	30	Very limited Restricted permeability Depth to bedrock Droughty Sodium content Slope	1.00 1.00 1.00 1.00 0.96	Very limited Deep to water	1.00
OrF: Orella-----	40	Very limited Slope Restricted permeability Depth to bedrock Droughty Sodium content	1.00 1.00 1.00 1.00 1.00	Very limited Deep to water	1.00
Rock Outcrop, Soft--	25	Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Pm: Cutcomb-----	80	Very limited Depth to saturated zone Low adsorption Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Cutbanks cave	0.10
RcE: Rosebud-----	23	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.07	Very limited Deep to water	1.00
Canyon-----	22	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
RdA: Richfield-----	77	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Dawes-----	20	Very limited Filtering capacity Sodium content	1.00 0.92	Very limited Deep to water	1.00
RhB: Richfield-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tuthill-----	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
RnA: Ronson-----	55	Somewhat limited Droughty Depth to bedrock	0.81 0.42	Very limited Deep to water	1.00
Anselmo-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RnB: Ronson-----	50	Somewhat limited Droughty Depth to bedrock	0.81 0.42	Very limited Deep to water	1.00
Anselmo-----	30	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Ru: Peji-----	40	Very limited Slope Droughty Filtering capacity Leaching limitation Depth to bedrock	1.00 1.00 1.00 0.45 0.42	Very limited Deep to water	1.00
Mckelvie-----	35	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Sa: Els-----	50	Very limited Filtering capacity Depth to saturated zone Leaching limitation Droughty	1.00 0.95 0.45 0.01	Very limited Cutbanks cave Deep to water	1.00 0.02
Selia-----	40	Very limited Restricted permeability Sodium content Filtering capacity Depth to saturated zone Flooding	1.00 1.00 1.00 1.00 0.60	Very limited Cutbanks cave Salty water Deep to water	1.00 0.01 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
SbE: Sansarc-----	55	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Boyd-----	40	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.99 0.42 0.40	Very limited Deep to water	1.00
Sd: Yockey-----	50	Somewhat limited Depth to saturated zone Flooding Sodium content	0.95 0.60 0.08	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.02
Bigwinder-----	40	Very limited Flooding Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.30 0.01
SnC: Shena-----	60	Very limited Depth to bedrock Droughty Runoff limitation Restricted permeability Low adsorption	1.00 1.00 0.40 0.30 0.06	Very limited Deep to water	1.00
TcF: Longpine-----	40	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Soft--	20	Not rated		Not rated	
TfE: Longpine-----	50	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Ronson-----	25	Very limited Slope Droughty Depth to bedrock	1.00 0.81 0.42	Very limited Deep to water	1.00
ThA: Tuthill-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
ThB: Tuthill-----	75	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
ThC: Tuthill-----	80	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
TnC: Tuthill-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Anselmo-----	25	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
TtC: Tuthill-----	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Longpine-----	30	Very limited Depth to bedrock Droughty Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
TvA: Tuthill-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Vetal-----	28	Not limited		Very limited Deep to water	1.00
TwA: Tuthill-----	45	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Wortman-----	25	Very limited Restricted permeability Sodium content Droughty Salinity Depth to bedrock	1.00 1.00 0.65 0.50 0.42	Very limited Deep to water	1.00
VaE: Valentine-----	99	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
VdC: Valentine-----	55	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
Dunday-----	35	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.05	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
VsE: Valentine-----	55	Very limited Slope Filtering capacity Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
Tassel-----	25	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Vt: Vetal-----	85	Not limited		Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
WbA: Wanblee-----	45	Very limited Restricted permeability Droughty Salinity Depth to bedrock Runoff limitation	1.00 0.96 0.50 0.42 0.40	Very limited Deep to water	1.00
Wortman-----	35	Very limited Restricted permeability Sodium content Salinity Depth to bedrock Droughty	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
Wd: Wann-----	85	Somewhat limited Depth to saturated zone Flooding Sodium content	0.84 0.60 0.08	Very limited Cutbanks cave Deep to water	1.00 0.07

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
We: Wann-----	70	Somewhat limited Depth to saturated zone Flooding Sodium content	0.84 0.60 0.08	Very limited Cutbanks cave Deep to water	1.00 0.07
WhA: Whitelake-----	85	Very limited Restricted permeability Sodium content Salinity	1.00 1.00 0.50	Very limited Cutbanks cave Deep to water Salty water	1.00 0.81 0.50
WoA: Wortman-----	50	Very limited Restricted permeability Sodium content Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.62 0.45	Very limited Deep to water	1.00
WrA: Wortman-----	70	Very limited Restricted permeability Sodium content Salinity Depth to bedrock Droughty	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
Yb: Yockey-----	60	Somewhat limited Depth to saturated zone Flooding Sodium content	0.95 0.60 0.08	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30 0.10 0.02
Bigwinder-----	35	Very limited Flooding Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Very limited Cutbanks cave Slow refill Deep to water	1.00 0.30 0.01

